



## *Certificate of Type Approval (AQS)*

This is to certify that Geberit Technik AG  
has met the requirements of ABS Product Type Approval for  
High Density Polyethylene (HDPE) Pipes and Fittings  
Model Name(s): HDPE

**Presented to:**

Geberit Technik AG  
Schachenstrasse 77  
Jona  
CH-8645  
Switzerland

**Intended Service:**

Sanitary drains, inert gas water seal and scrubber effluent lines

**Description:**

High density polyethylene pipes and fittings; sizes: 32 mm, 40 mm, 50 mm, 56 mm, 63 mm, 75 mm, 90 mm, 110 mm, 125 mm 160 mm.

**Ratings:**

PN 1.5, Maximum service temperature 73°C, Maximum external pressure: 32mm to 40mm - 1.66 bar; 50mm to 63mm - 1 bar; 75 mm - 0.46 bar; 90mm to 125 mm - 0.4 bar; 160 mm - 0.7 bar.

**Service Restrictions:**

1. Usage limited to applications where "no fire endurance test required" by Table 4-6-3/1 of the ABS Steel Vessel Rules and is to be fitted only on open decks and within tanks, cofferdams, void spaces, pipe tunnels and ducts, as no fire endurance test or flame spread test have been carried out in accordance with 4-6-3/5.11 and 4-6-3/5.13 of the ABS Steel Vessel Rules. 2. Not to be used in fire main. 3. Not to be installed in areas classified as "hazardous" by 4-8-4/27 of the ABS Steel Vessel Rules or 4/1.7 of the ABS MODU Rules.

**Comments:**

1. Joining techniques are to be in accordance with the manufacturer's installation guidelines. 2. Pipes and fittings

are to be permanently marked with identification including pressure rating, standard of manufacture and material with which it is made. 3. For each application, details of axial strength are to be submitted for review.

**ABS Rules:**

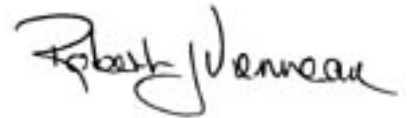
4-6-3/5.1, 4-6-3/5.3, 4-6-3/5.7, 4-6-3/5.9, 4-6-3/7.3, 4-6-3/11.3.1 of ABS Steel Vessel Rules 2000.

**National Standards:**

**International Standards:**

**Government Authority:**

**Others:**



Manager, ABS Programs

ABS has used due diligence in the preparation of this certificate and it represents the information on the product in the ABS Records as of the date and time the certificate was printed. Type Approval requires Drawing Assessment, Prototype Testing and assessment of the manufacturer's quality assurance and quality control arrangements. Limited circumstances may allow only Prototype Testing to satisfy Type Approval. The approvals of Drawings and Products remain valid as long as the ABS Rule, to which they were assessed, remains valid. ABS cautions manufacturers to review and maintain compliance with all other specifications to which the product may have been assessed. Further, unless it is specifically indicated in the description of the product; Type Approval does not necessarily waive witnessed inspection or survey procedures (where otherwise required) for products to be used in a vessel, MODU or facility intended to be ABS classed or that is presently in class with ABS. Questions regarding the validity of ABS Rules or the need for supplemental testing or inspection of such products should, in all cases, be addressed to ABS.

Printed on : 2003-03-23 20:44:48.799